Monarch® 9855™ HF High Frequency RFID Printer/Encoder
Product Specification

- Tabletop Printer/Encoder
- Encodes HF (13.56 MHz) RFID Chips
- Prints Bar Code Data
- Thermal Direct or Transfer
- On-demand or Continuous
- Prints Up to 12 ips
- Optional 300 dpi Printing

Monarch®
Products and Services

STANDARD FEATURES

Dimensions:
Height - 13.0" (330 mm)
Width - 12.5" (318 mm)
Depth - 17.3" (439 mm)
Weight - 34 lbs. (15.5 kg)

Printing Method:
Thermal Direct or Thermal Transfer

Printhead:
4.0" (102 mm/812 dots)
203 dots/inch (8 dots/mm) OR
300 dots/inch (11.8 dots/mm)
Both printheads provide enhanced print quality

Processor:
32-Bit 150 MHz Processor

RFID Encoding Frequency:
High Frequency (HF) 13.56 HHz

RFID Protocols:
ISO 15693-2, -3
ISO 18000-3
TI Tag-IT
Philips/NXP I-Code
TAGSYS C270, C370

Memory:
4 MB Flash, 16 MB SDRAM
Optional 16 MB; Configurable 8 MB
RAM using these buffers:
Transmit, Receive, Image, Format, Downloadable & Scalable Fonts

Bar Code Types:
UPCA +2/+5, UPCE +2/+5, EAN8 +2/+5, EAN13 +2/+5, Interleaved 2 of 5, Extended Code 39, Codabar (NW7), Code 128, Code 93, MSI, PDF417, Postnet, MaxiCode, Code 16K, Quick Response (QR Code)

Standard Fonts:
Bitmap - Standard, Reduced, Bold, OCRA-like, CG Triumvirate, and CG Triumvirate Bold
TrueType® - EFF Swiss Bold
Supports downloaded double-byte (TrueType and bitmap) fonts, allowing for Chinese, Japanese, and Korean character sets.

Font Magnification:
1x to 7x
4 to 250 pt. for scalable/TrueType fonts

PC/Host Interface:
IEEE-1284 Parallel or Centronics Mode
USB (Universal Serial Bus)
RS 232 Serial at 2,400 BPS to 115,200 BPS
Optional Ethernet, 802.11B wireless card.

Printer Warranty:
One (1) year parts and labor.
Full written warranty statement available on request.

Printhead Warranty:
One (1) million inches or six (6) months, whichever occurs first.

Optional Knife Warranty:
500,000 cuts or one (1) year, whichever occurs first.

PERFORMANCE

Power Source:
90-264 VAC with autoselect 50/60 Hz
Optional 24 VDC regulator

Print Speed:
2.5 ips (64 mm) - default for serial bar codes

4 ips (102 mm) - 203 dpi serial bar codes with narrow elements of 3 dots (or greater)
6.0 ips (152 mm) - default for parallel bar codes
8.0 ips (203 mm)
10.0 ips (254 mm)
12.0 ips (305 mm) only with 203 dpi printhead.

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SUPPLIES

Only Monarch-brand® supplies are recommended. Use non-perforated supplies in peel mode. High-energy (TUFFMARK®) supplies are available.

Supply Types:
RFID Labels, RFID Tags, Labels, Tags and Receipt Paper.

Standard Supply Sizes:
Width - 0.75" to 4.25" (19 mm to 102 mm)
Length - 0.32" to 17.5" (8 mm to 445 mm)
Supply Roll length is 7,874" (200 meters) - this varies on material thickness.

Supply Thickness:
Labels – 5.5 to 10 mils
Standard Tags – 5.5 to 10 mils
RFID Tags - 7 to 14 mils
Receipt Paper – 2.4 mils

Maximum Print Area:
4.0" x 16.0" (102 mm x 406 mm) with the 203 dpi printhead

4.0" x 13.0" (102 mm x 330 mm) with the 300 dpi printhead
Larger images (up to 16 feet) can be printed using continuous supply and reallocating memory.

Ribbon Sizes:

Ribbon Widths	Use with max. supply width
1.5" (38 mm)	1.2" (33 mm)
1.8" (46 mm)	1.5" (38 mm)
2.3" (58 mm)	2.0" (51 mm)
3.3" (84 mm)	3.0" (76 mm)
4.3" (110 mm)	4.0" (102 mm)

TUFFMARK® 2.3" (58 mm), 4.3" (110 mm), 2.0" (51 mm) and 4.0" (102 mm)

Ribbon Length:
23,616" (600 meters)

About Ribbons:
The width of the ribbon must be at least 0.3" (8 mm) greater than the supply width. Using a ribbon wider than your supply helps protect the printhead.

ENVIRONMENT RANGES

Operating Temperature:
Thermal Transfer: 40° to 95° F (4° to 35° C)
Thermal Direct: 40° to 104° F (4° to 40° C)

Storage:
15° to 120° F (-10° to 49° C)

Humidity/Operating and Storage:
5% to 90% non-condensing

Electrostatic Discharge and Air Quality:
Some problems with electronic equipment may occur in environments prone to static discharge or extreme dust conditions. Paxar suggests that you take precautions to minimize these problems.

OPTIONS

- 926™ Knife
- 300 dpi printhead
- 12 ips print speed
- Peel Mode with On-Demand Sensor
- Ethernet Print Server
- Dual 802.11b Wireless and Ethernet Print Server
- ADK Script Programming for special applications

- 16 MB Flash Memory expansion
- MonarchNet2™
- Monarch Smart Relay System
- Cart Ready
- XML for Oracle WMS Interface
- XML for SAP RFID AII Interface

ACCESSORIES

- 935™ Rewind
- 938™ Verifier (Bar Code)
- 939™ Keyboard
- 939I™ Intelligent Keyboard

In our ongoing effort to deliver the best technology, specifications are subject to change without notice.

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